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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/060,736	01/30/2002	Atsuhito Noda	A1-180 US	6998

23683 7590 08/07/2003

MOLEX INCORPORATED
2222 WELLINGTON COURT
LISLE, IL 60532

EXAMINER

LEON, EDWIN A

ART UNIT	PAPER NUMBER
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2833

DATE MAILED: 08/07/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/060,736

Applicant(s)

NODA ET AL.

Examiner

Edwin A. León

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 March 2003 and 03 July 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 and 15-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 12, 13 and 15-19 is/are allowed.
- 6) ☒ Claim(s) 1, 2, 5 and 11 is/are rejected.
- 7) ☒ Claim(s) 3, 4 and 6-10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. Applicant's Response and Request for Continued Examination filed March 5, 2003 and July 3, 2003 have been placed of record in the file as Papers No. 10 and 13, respectively.

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," "Disclosed is", etc.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-2, 5, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Cherian et al. (U.S. Patent No. 4,199,209). With regard to Claim 1, Cherian et al. discloses a receptacle connector (10) for effecting an electrical connection between an integrated circuit package (14) having a plurality of contacts (46) disposed thereon, and a printed circuit board (12) having a plurality of contact pads (46) formed thereon, the receptacle connector (10) comprising: insulative connector housing (16,20,50) for interposing between the integrated circuit package (14) and the printed circuit board (12) in use, the connector housing (16,20,50) including a plurality of cavities (where 18 are located) formed therein, each of the cavities (where 18 are located) opening to opposite surfaces of the connector housing (16,20,50); and, a plurality of conductive terminals (18) embedded in the connector housing (16,20,50), each of the terminals (18) being disposed in a single one of the cavities (where 18 are located), the terminals (18) including body portions (portion between 28, 34 and 30) extending across connector housing cavities (where 18 are located), the terminal body portions (portion between 28, 34 and 30) having a plurality of edges (lateral outermost points of 18), the terminals (18) including pairs of terminal retention members (28, 30, 34) disposed along two opposing edges of the body portions (portion between 28, 34 and 30), the terminal retention members (28, 30, 34) extending into the connector housing (16,20,50) to thereby hold the terminals (18) in place, at least one of the terminal retention member (28,34, and 30) including a retention stub (curved inside corners of 28, 34 and 30) formed by bending the terminal (18) upon itself, the terminals (18) further including

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contact arms (upper part of 18 in which 32 is located) that extend away from the terminal body portions (portion between 28, 34 and 30) and project exterior of the connector housing (16,20,50) for contacting the contacts (46) or contact pads (46). See Fig. 1.

With regard to Claim 2, Cherian et al. discloses each of the terminals including a retention stub (curved inside corners of 28, 34 and 30) as one of its retention members (28, 30, 34) and further includes a retention arm (upper part of 18 in which 32 is located) as the other of its the two retention members (28, 30, 34), the retention stub (curved inside corners of 28, 34 and 30) and arm (upper part of 18 in which 32 is located) extending away from the terminal body portion (portion between 28, 34 and 30) in different directions. See Fig. 1.

With regard to Claim 5, Cherian et al. discloses a portion (curved corners of 28, 34 and 30) of each the terminal (18) being folded upon itself to define a U-shaped bend in the terminal (18), the U-bend defining the terminal retention stub (curved inside corners of 28, 34 and 30) of the terminal (18). See Fig. 1.

With regard to Claim 11, Cherian et al. discloses each of the contact arms (upper part of 18 in which 32 is located) extending obliquely away from the body portion (portion between 28, 34 and 30), beginning at the retention stub (curved inside corners of 28, 34 and 30) and terminating in a free end (tips of 28, 34 and 30) that is spaced apart from a central portion (center of the portion between 28, 34 and 30) of the body portion (portion between 28, 34 and 30). See Fig. 1.

Allowable Subject Matter

5. Claims 12-13 and 15-19 are allowed.
6. Claims 3-4, and 6-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The references fail to teach, disclose, or suggest, either alone or in combination, regarding Claims 6, 16 and 19, each of the terminals including a spherical contact applied to the terminal and disposed on a side thereof opposite the contact arm; regarding Claim 3, the terminal body portion extends in a horizontal plane within the terminal-receiving cavity and the retention arm extends in a vertical plane away from the terminal body portion and the retention stub extends away from the terminal body portion in a horizontal plane; and regarding Claim 12, each of the terminal body portions extending horizontally within the terminal receiving cavities, the terminal retention arms extending vertically away from the terminal body portions and the terminal retention stubs extending horizontally away from the terminal body portions.

Response to Arguments

7. Applicant's arguments with respect to claims 1-2, 5 and 11 have been considered but are moot in view of the new ground(s) of rejection. Regarding Applicant's remarks

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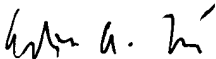
regarding the reasons for allowance, they have been divided to show the allowable subject matter of each claim.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edwin A. León whose telephone number is (703) 308-6253. The examiner can normally be reached on Monday - Friday 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on (703) 308-2319. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



Edwin A. Leon
AU 2833

EAL
August 3, 2003



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